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中国兰科两新种*

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摘要: 对中国兰科两新种——麻栗坡卷瓣兰 (*Bulbophyllum malipoense*) 和赵氏蜘蛛兰 (*Arachnis zhaoi*) 作了描述和绘图。前者与直立卷瓣兰 (*B. unciniferum*) 相近, 区别点在于新种的假鳞茎聚生, 卵球形; 叶较小, 长 2～3.5 cm; 侧萼片较短, 长 1.4～1.7 cm, 仅中部合生; 后者与窄唇蜘蛛兰 (*A. labrosa*) 有亲缘关系, 但新种花淡黄绿色, 无红棕色斑, 花瓣稍宽于萼片, 易于区别。

关键词: 麻栗坡卷瓣兰; 赵氏蜘蛛兰; 新种; 兰科; 中国
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Two New Species of Orchidaceae from China

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Abstract: Two new species of Orchidaceae from China, *Bulbophyllum malipoense* and *Arachnis zhaoi*, are described and illustrated. The former is related to *B. unciniferum*, from which it differs by having clustered, ovoid-globose pseudobulbs, smaller leaves 2-3.5 cm long, and shorter lateral sepals 1.4-1.7 cm long and with their middle margins connate to each other; the latter is akin to *A. labrosa*, from which it differs by its pale yellow-green flowers lacking red-brown marking, and its petals slightly broader than sepals.

Key words: *Bulbophyllum malipoense*; *Arachnis zhaoi*; New species; Orchidaceae; China

1 麻栗坡卷瓣兰 新种 卷瓣兰组 图 1

Bulbophyllum malipoense Z. J. Liu, S. C. Chen et S. P. Lei, sp. nov. Sect. Cirrhopetalum, Fig. 1.

Type: China, Yunnan, Malipo county (麻栗坡县), Jinchang (金厂), Huoshaoliangzi (火烧梁子). On rock or tree in broad-leaved forest, alt. ca. 1 000 m, Z. J. Liu (刘仲健) 3412 (holotype, NOCC (NOCC = Herbarium, The National Orchid Conservation Center of China)).

Species nova *Bulbophyllo uncinifero* Seidenf. affiinis, a quo differt pseudobulbis fasciculatis ovoideo-globosis, foliis minoribus 2-3.5 cm longis, sepalis lateralibus brevioribus 1.4-1.7 cm longis marginibus connatis tantum in medio.

Epiphytic plants. Pseudobulbs clustered, ovoid-globose, 0.9-1.2 cm long, 6-8 mm thick, purplish-brown. Leaf 1, terminal, thick-coriaceous, oblong, 2-3.5 cm long, 0.6-1 cm wide, apex obtuse and emarginate, base subsessile. Scape arising at the base of the pseudobulb, erect, approximately as long as the leaves; umbel with 5-9 flowers; peduncle ca. 0.8 mm thick, with 2 sheaths. Floral bracts lanceolate, 5-6 mm long; pedicel and ovary 5.5-6.5 mm long. Dorsal sepal and petals yellowish with 3 dark purple longitudinal stripes; lateral sepals yellowish with purple spots and veins, densely papillate-hairy. Dorsal sepal ovate, 3.8-4 mm long, 1.6-1.8 mm wide, apex obtuse, entire. Lateral sepals narrowly lanceolate, 1.4-1.7 cm long, base twisted, connate along their middle margins, apex acuminate. Petals obliquely elliptic, 2.5-2.7 mm long, 1.5-

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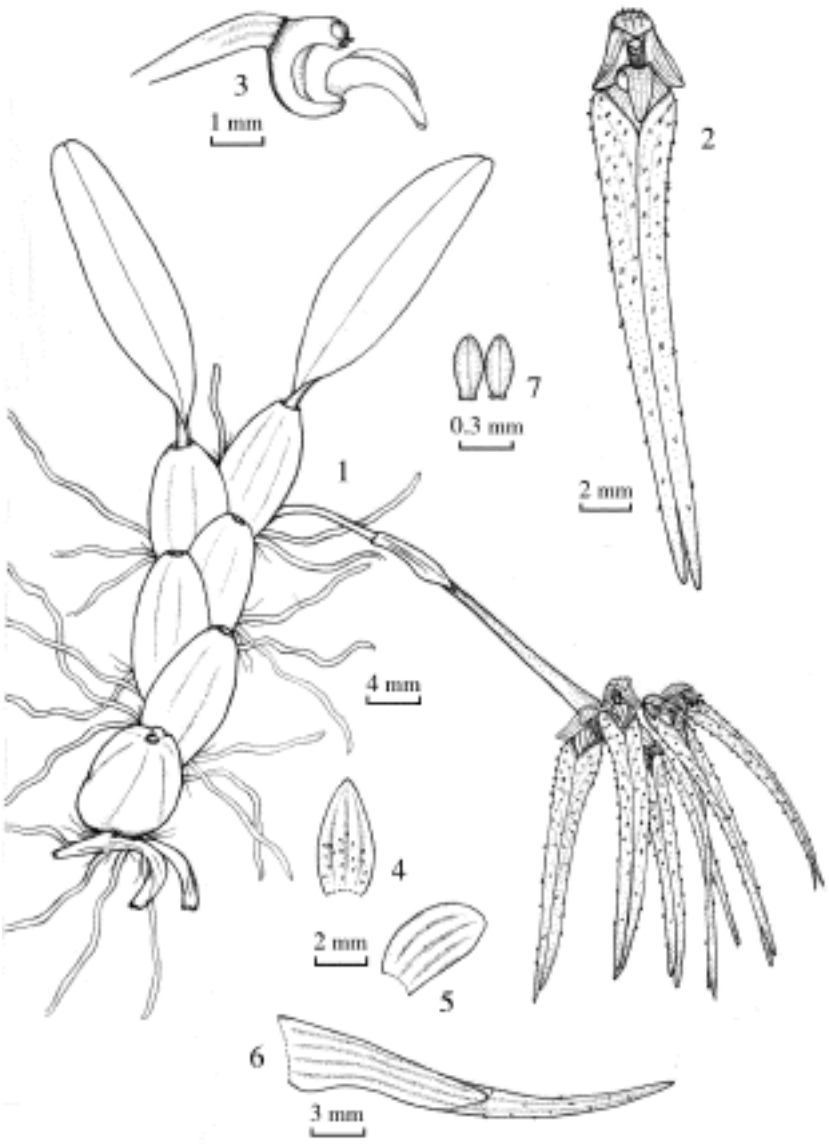

图 1　麻栗坡卷瓣兰

1．带花植株；2．花，正面观；3．蕊柱与唇瓣，侧面观；4．中萼片，背面观；5．花瓣，正面观；6．侧萼片，正面观；7．花粉块。(张培文根据 Z．J．Liu 3412 号标本绘)

Fig．1　*Bulbophyllum malipoense* Z．J．Liu，S．C．Chen et S．P．Lei

1．Flowering plants；2．Flower，front view；3．Column and lip，side view；4．Dorsal sepal，back view；5．Petal，front view；6．Lateral sepal，front view；7．Pollinarium．

Drawn by Miss P．W．Zhang from Z．J．Liu 3412．

图 2　麻栗坡卷瓣兰

1．带花植株；2．花；3．带果植株

Fig．2　*Bulbophyllum malipoense* Z．J．Liu，S．C．Chen et S．P．Lei

1．Flowering plants；2．Flowers；3．Fruiting plants

1.6 mm wide，apex obtuse，entire．Labellum fleshy，ovate-lanceolate，curved downward，apex obtuse，channeled at base，entire；column 1 mm long；foot bend forward，2 mm long，with free part 1 mm long．Fl．April-May (Fig．2)．

The new species is related to *Bulbophyllum unciniferum* Seidenf．，from which it differs by its clustered，ovoid-globose pseudobulbs，smaller leaves 2-3.5 cm long，and shorter lateral sepals 1.4-1.7 cm long and only with their middle margins connate to each other．

附生植物。假鳞茎聚生，卵球形，长 0.9～1.2 cm，粗 6～8 mm，紫褐色。叶 1 枚，顶生，厚革质，矩圆形，长 2～3.5 cm，宽 0.6～1 cm，先端钝且微凹，基部近无柄。花葶出自假鳞茎基部，直立，与叶约等长，伞形花序具 5～9 花；花序柄粗约 0.8 mm，被 2 鞘；花苞片披针形，长 5～6 mm；花梗连同子房长 5.5～6.5 mm；中萼片和花瓣浅黄色，具 3 条深紫色纵条纹；侧萼片浅黄色，具紫色斑点与脉纹，密生腺毛；中萼片卵形，长 3.8～4 mm，宽 1.6～1.8 mm，先端钝，边缘全缘；侧萼片狭披针形，长 1.4～1.7 cm，基部扭转，边缘沿中部合生，先端渐尖；花瓣斜椭圆形，长 2.5～2.7 mm，宽 1.5～1.6 mm，先端钝，边缘全缘；唇瓣肉质，卵状披针形，下弯，先端钝，基部具凹槽，边缘全缘；蕊柱长 1 mm；蕊柱足向前弯曲，长 2 mm，其分离部分长约 1 mm。花期 4～5 月 (图 2)。

本种与直立卷瓣兰 (*B. unciniferum*) 相似，区别点在于本种假鳞茎聚生，卵球形；叶较小，长 2～3.5 cm；侧萼片较短，长 1.4～1.7 cm，仅中部合生。

2　赵氏蜘蛛兰　新种　图 3

Arachnis zhaoi Z．J．Liu，S．C．Chen et S．P．Lei，sp．nov．Fig．3．

Type: China，Hainan，Changjiang (昌江)，Qicha (七叉)，Qichaling Mountain (七差岭)，alt．600 m，on tree．2005．9．8，Z．J．Liu (刘仲健) 3055 (holotype，here designated，NOCC) (NOCC = Herbarium，The National Orchid Con-

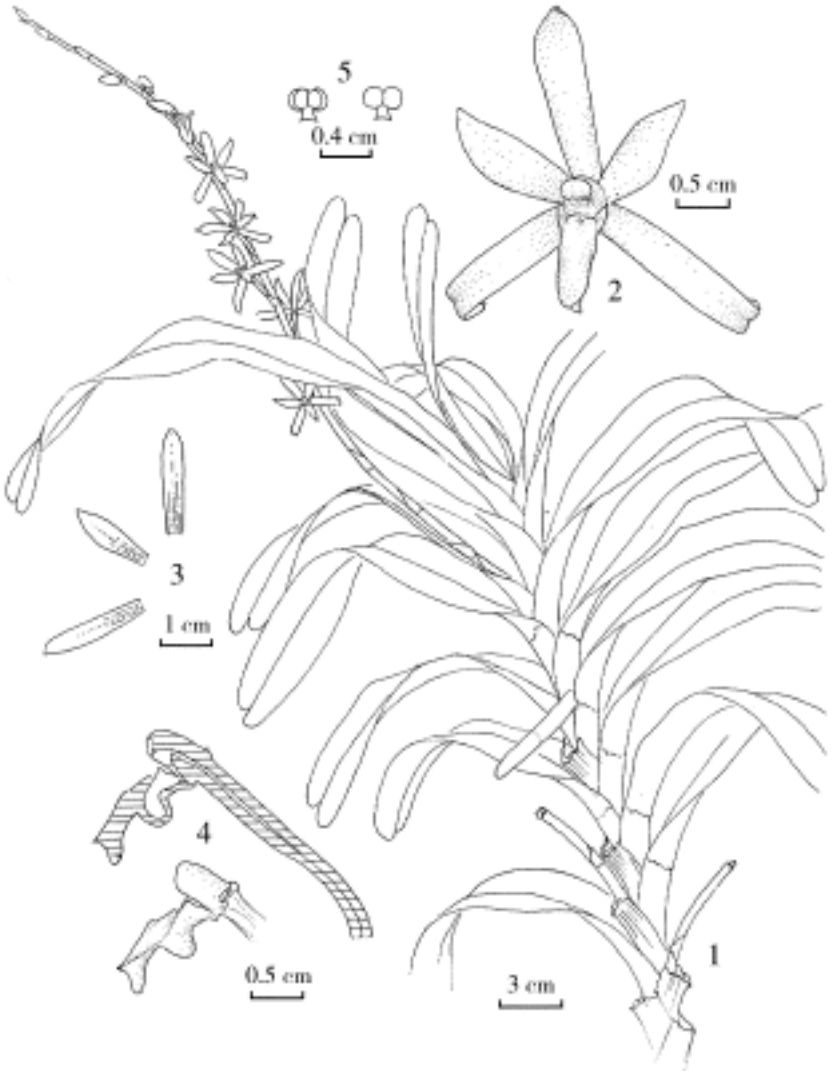

图3 赵氏蜘蛛兰

1. 带花植株; 2. 花; 3. 中萼片、花瓣、侧萼片; 4. 唇瓣与蕊柱 (上: 纵切面, 下: 侧面观); 5. 花粉块。

(陈利君根据 Z. J. Liu 3055 号标本绘)

Fig. 3 *Arachnis zhaoi* Z. J. Liu, S. C. Chen et S. P. Lei

1. Flowering plant; 2. Flower; 3. Dorsal sepal, petal and lateral sepal; 4. Lip and column (above: longitudinal section, below: side view); 5. Pollinarium. Drawn by Miss L. J. Chen from Z. J. Liu 3055

servation Center of China).

Species nova *Arachni labrosae* (Lindl. et Paxt.) Rchb. f. similis, a qua flore flavido-viridulo absque maculatis rubro-brunneis, petalis sepalis leviter latioribus bene differt.

Stem 40-70 cm long, 0.8-1.1 cm thick, rigid, with many nodes and distichous leaves. Leaves leathery, lorate, 20-30 cm long, 2.2-3.5 cm broad, apex unequally rounded-bilobed, with amplexicaul sheaths at base; sheaths equitant, persistent. Inflorescences axillary, 40-60 cm long, with 12-17 flowers; floral bracts yellow-green, persistent, broadly ovate, basally amplexicaul, 6-9 mm long, apex obtuse; pedicel and ovary yellow-greenish, 1.8-2.5 cm long; flower yellow-greenish; lip with yellow side-lobes and yellow-whitish mid-lobe; sepals oblong, 1.5-2.0 cm long, 3-4 mm broad, dorsally with rather thick midrib slightly knobbed toward its apex, apex acute and curved backward; petals narrowly falcate-elliptic, 1.4-1.6 cm long, 4-5 mm broad, with slightly thicker midrib dorsally, apex acute and slightly curved backward; lip fleshy, 1.3-1.5 cm long, 3-lobed; side-lobes small, subtriangular, ca. 2 mm broad, apex obtuse; mid-lobe fleshy, ligulate, 7-9 mm long, 4-5 mm broad, apex acute, with a conical callus abaxially, base concave centrally and with a backward pointing papilla on either side; spur 2-3 mm long; column 4-6 mm long; column-foot 1 mm long. Fl. August-October.

This new species is similar to *Arachnis labrosa* (Lindl. et Paxt.) Rchb. f., from which it differs by having yellow-greenish flowers without red-brown markings; and its petals slightly broader than sepals.

The new species is named in honor of Mr. Zhao xue-min, the honorary chairman of the Orchid Conservation Committee of China.

茎长40～70 cm，粗0.8～1.1 cm，质地硬，具多数节和多数二列排列的叶。叶革质，带状，长20～30 cm，宽2.2～3.5 cm，先端不对称的2圆裂，基部具抱茎的鞘；叶鞘套叠，宿存。花序自叶腋发出，长40～60 cm，具12～17花；花苞片黄绿色，不脱落，宽卵形，基部抱轴，长6～9 mm，先端钝；子房和花梗淡黄绿色，长1.8～2.5 cm；花淡黄绿色，唇瓣侧裂片黄色，中裂片淡黄白色；萼片矩圆形，长1.5～2.0 cm，宽3～4 mm，背面中肋增厚并在先端稍突起，先端急尖且后卷；花瓣镰刀状狭椭圆形，长1.4～1.6 cm，宽4～5 mm，背面中肋稍增厚，先端急尖且稍后卷；唇瓣肉质，长1.3～1.5 cm，3裂；侧裂片小，近三角形，宽约2 mm，先端钝；中裂片厚肉质，舌形，长7～9 mm，宽4～5 mm，先端急尖，背面具1个圆锥形肉突，基部中央凹陷，两侧各具1个指向后方的乳突；距长2～3 mm；蕊柱长4～6 mm，蕊柱足长1 mm。花期8～10月。

本新种与窄唇蜘蛛兰 *Arachnis labrosa* 相近，但花淡黄绿色，无红棕色斑；花瓣略宽于萼片。易于区别。

蜘蛛兰属 *Arachnis* Bl. 全世界约有13种，分布于东南亚至太平洋一些岛屿。我国仅产1种，产于南方热带地区。2005年9月初在海南省东方县昌江采到多株正在开花的蜘蛛兰属植物。该植物花淡黄色，无蜘蛛兰特有的蜘蛛斑纹，花瓣稍宽于萼片，再检视其他结构也不同于已知的蜘蛛兰属植物，故认为是新种无疑。2006年2月中国野生植物保护协会兰科植物保育委员会正式成立了。在名誉主席赵学敏的关怀与支持下，在深圳建立了中国兰科植物种质资源保护中心，并积极开展兰科资源考察与兰科濒危物种回归自然的工作。本文就是兰科资源考察工作的部分成果。作者将新种命名为赵氏蜘蛛兰，是对兰科植物保育委员会的成立和保护中心的建立这一兰花保护史上的里程碑及致力于这一工作的名誉主席赵学敏表示敬意。

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